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Relevance scale

- 1** [Hypermedia in the Small: Fluid annotations through open hypermedia: using and extending emerging web standards](#)

◆ Niels Olof Bouvin, Polle T. Zellweger, Kaj Grønbæk, Jock D. Mackinlay  
May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Fluid Documents project has developed various research prototypes that show that powerful annotation techniques based on animated typographical changes can help readers utilize annotations more effectively. Our recently-developed Fluid Open Hypermedia prototype supports the authoring and browsing of fluid annotations on third-party Web pages. This prototype is an extension of the Arakne Environment, an open hypermedia application that can augment Web pages with externally stored hypermedia s ...

**Keywords:** RDF, XLink, XPointer, annotations, annotea, fluid documents, web augmentation with open hypermedia

- 2** [Deciding when to forget in the Elephant file system](#)

◆ Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite. This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

- 3** [Generating Web-based presentations in spatial hypertext](#)

◆ Frank M. Shipman, Richard Furuta, Catherine C. Marshall

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available:  pdf(1.95 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** VIKI, Walden's paths, World-Wide Web, analysis tools, implicit structure, presentation authoring, presentation models, spatial hypertext, spatial parsing

4 User interface directions for the Web 

 Jakob Nielsen

January 1999 **Communications of the ACM**, Volume 42 Issue 1

Publisher: ACM Press

Full text available:  pdf(421.52 KB)  
 html(35.34 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

5 Linking by interacting: a paradigm for authoring hypertext 

 Maria da Graça Pimentel, Gregory D. Abowd, Yoshihide Ishiguro

May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Publisher: ACM Press

Full text available:  pdf(487.73 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** augmenting, authoring hypertext, capturing, linking, presenting, user-hypertext interaction

6 Robust document image understanding technologies 

 Henry S. Baird, Daniel Lopresti, Brian D. Davison, William M. Pottenger

November 2004 **Proceedings of the 1st ACM workshop on Hardcopy document processing**

Publisher: ACM Press

Full text available:  pdf(92.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

No existing document image understanding technology, whether experimental or commercially available, can guarantee high accuracy across the full range of documents of interest to industrial and government agency users. Ideally, users should be able to search, access, examine, and navigate among document images as effectively as they can among encoded data files, using familiar interfaces and tools as fully as possible. We are investigating novel algorithms and software tools at the frontiers ...

**Keywords:** OCR error management, document analysis, information retrieval

7 Past, present, and future of user interface software tools 

 Brad Myers, Scott E. Hudson, Randy Pausch

March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available:  pdf(151.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A user interface software tool helps developers design and implement the user interface. Research on past tools has had enormous impact on today's developers—virtually all applications today are built using some form of user interface tool. In this article, we consider cases of both success and failure in past user interface tools. From these cases we extract a set of themes which can serve as lessons for future work. Using these themes, past tools can be characterized by what aspects ...

**Keywords:** event languages, interface builders, scripting languages, toolkits, user interface development environments, user interface software

**8 Teaching and learning as multimedia authoring: the classroom 2000 project** 

◆ Gregory D. Abowd, Christopher G. Atkeson, Ami Feinstein, Cindy Hmelo, Rob Kooper, Sue Long, Nitin Sawhney, Mikiya Tani

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** audio/video capture, educational technology, media integration, pen-based computing, ubiquitous computing

**9 The digital library integrated task environment (DLITE)** 

◆ Steve B. Cousins, Andreas Paepcke, Terry Winograd, Eric A. Bier, Ken Pier

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  [pdf\(1.57 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** digital library, direct-manipulation, holophrasing, user interface, world-wide web

**10 SIGGRAPH VRML 3D Ph.D Conetree** 

◆ Norman I. Badler, Roger W. Webster

August 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(537.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the work-in-progress of a VRML 3D conetree to visualize Ph.D. graduates and their Ph.D. thesis advisors in the field of computer graphics. As part of the SIGGRAPH history project chaired by Carl Machover, this VRML 3D conetree debuts publicly at the 25th conference celebration at SIGGRAPH 98, July 1998, in Orlando, FL. This conetree allows a VRML-enabled browser to visualize Ph.D. contributors to the field of computer graphics and to trace their influences and academic proge ...

**11 Hypermedia Templates: an author's tool** 

◆ Karen Smith Catlin, L. Nancy Garrett

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

**Publisher:** ACM Press

Full text available:  [pdf\(936.43 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** hypermedia design principles, hypermedia templates, intermedia

**12 Aquanet: a hypertext tool to hold your knowledge in place** 

◆ Catherine C. Marshall, Frank G. Halasz, Russell A. Rogers, William C. Janssen

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

**Publisher:** ACM Press

Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**13 CMIFed: a transportable hypermedia authoring system**

 Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender

October 1994 **Proceedings of the second ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  pdf(1.93 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**14 KDD-99 conference reports: KDD-99 panel report: data mining into vertical solutions**

 Ronny Kohavi, Mehran Sahami, Steve Belcher, Jim Bozik, Rob Gerritsen, Ken Ono, Dorian Pyle

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(429.17 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)



At KDD-99, the panel on Integrating Data Mining into Vertical Solutions addressed a series of questions regarding future trends in industrial applications. Panelists were chosen to represent different viewpoints from a variety of industry segments, including data providers (Jim Bozik), horizontal and vertical tool providers (Ken Ono and Steve Belcher respectively), and data mining consultants (Rob Gerritsen and Dorian Pyle). Questions presented to the panelists included whether data mining compa ...

**Keywords:** integration of data mining, panel report, vertical markets

**15 Document and images analysis: Information encoding into and decoding from dot**

 texture for active forms

Bilan Zhu, Masaki Nakagawa

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

**Publisher:** ACM Press

Full text available:  pdf(1.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



We describe here information encoding and decoding methods applied to dot texture for active forms. We employ dot texture made of tiny dots and looking like gray color to print various forms. This facilitates the separation of handwriting from its input frame even under monochrome printing/reading environments. It also makes the forms determine how to process filled-in handwriting according to the information embedded in the dot texture. The embedded information results in an improved recognitio ...

**Keywords:** form processing, form recognition, labeling, morphology, paper-based UI

**16 Group Spaces: Sotto voce: exploring the interplay of conversation and mobile audio**

 spaces

Paul M. Aoki, Rebecca E. Grinter, Amy Hurst, Margaret H. Szymanski, James D. Thornton, Allison Woodruff

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

**Publisher:** ACM Press

Full text available:  pdf(489.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



In addition to providing information to individual visitors, electronic guidebooks have the potential to facilitate social interaction between visitors and their companions. However, many systems impede visitor interaction. By contrast, our electronic guidebook, *Sotto Voce*, has social interaction as a primary design goal. The system enables visitors to share audio information - specifically, they can hear each other's guidebook activity using a technologically mediated audio eavesdropping ...

**Keywords:** electronic guidebooks, interaction analysis, shared audio

**17 Communities: Flash forums and forumReader: navigating a new kind of large-scale online discussion**

Kushal Dave, Martin Wattenberg, Michael Muller  
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(513.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a popular kind of large, topic-centered, transient discussion, which we term a <i>flash forum</i>. These occur in settings ranging from web-based bulletin boards to corporate intranets, and they display a conversational style distinct from Usenet and other online discussion. Notably, authorship is more diffuse, and threads are less deep and distinct. To help orient users and guide them to areas of interest within flash forums, we designed ForumReader, a tool combining data ...

**Keywords:** collaboration, large-scale conversations, mass interaction, persistent conversations, prototype, thumbnail interface, user interface, user study, visualization

**18 Spatial hypertext and the practice of information triage**

Catherine C. Marshall, Frank M. Shipman  
April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Publisher: ACM Press

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** VIKI, analysis, digital libraries, gathering interfaces, information triage, information workspaces, qualitative study, spatial hypertext

**19 Recovering binary class relationships: putting icing on the UML cake**

Yann-Gaël Guéhéneuc, Hervé Albin-Amiot  
October 2004 **ACM SIGPLAN Notices, Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10

Publisher: ACM Press

Full text available:  pdf(239.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A discontinuity exists between object-oriented modeling and programming languages. This discontinuity arises from ambiguous concepts in modeling languages and a lack of corresponding concepts in programming languages. It is particularly acute for binary class relationships---association, aggregation, and composition. It hinders the traceability between software implementation and design, thus hampering software analysis. We propose consensual definitions of the binary class relationships with ...

**Keywords:** UML, binary class relationships, consensual definitions, design-implementation discontinuity, detection algorithms, formalisations, java, minimal properties

**20 Planning-based control of interface animation**

David Kurlander, Daniel T. Ling  
May 1995 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  html(48.04 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Relevance scale

**21** [ICSE '99 conference daily newspaper: Window on the World](#)July 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(3.37 MB) Additional Information: [full citation](#), [index terms](#)**22** [Building bridges: customisation and mutual intelligibility in shared category](#)

management

Paul Dourish, John Lampert, Tom Rodden

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research into collaborative document use often concentrates on how people share document content. However, studies of real-world document practices reveal that the structures by which document corpora are organised may also, themselves, be important sites of collaborative activity. Unfortunately, this poses a problem. When category structures are used to understand a set of documents, the manipulation of those structures can interfere with shared understand ...

**Keywords:** categorisation, customisation, document management, shared views, shared workspaces

**23** [Beyond outlaws, hackers and pirates](#)

Rob Kling

May 1996 **ACM SIGCAS Computers and Society**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.31 MB) Additional Information: [full citation](#), [index terms](#)**24** [Computer-support cooperative work](#)

Jakob Nielsen

July 1987 **ACM SIGCHI Bulletin**, Volume 19 Issue 1

Publisher: ACM Press

Full text available:  pdf(875.91 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

At CHI'86 it was a general impression that the area of several people working together using computers was starting to become the next hot topic as a research area. At the same time the European Community is considering changing the focus of the human factors part of the next ESPRIT research program from the so-called **human factors-1** (interaction between a single human and a single computer) to **human factors-2** (interaction between several humans and several computers).

**25 Tacit knowledge: icebergs in collaborative design** 

 Brent N. Reeves, Frank Shipman  
December 1996 **ACM SIGOIS Bulletin**, Volume 17 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.28 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This workshop provides a forum for discussing experiences and issues related to tacit knowledge [Polanyi 1967] in collaborative systems. Beginning with early CSCW systems, tacit knowledge of work practice, in terms of unspoken assumptions and exceptions, has posed difficult problems for system designers. Analyses by Ehn [1988], Grudin [1994] and others [Bullen and Bennett 1990] show that tacit knowledge continues to play a disturbingly large role in the problems most CSCW systems struggle with. ...

**26 Hypertext** 

 July 1988 **Communications of the ACM**, Volume 31 Issue 7

Publisher: ACM Press

Full text available:  pdf(438.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**27 The SIGCHI bulletin: interviews with the editors** 

 Steven Pemberton  
January 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  pdf(456.53 KB) Additional Information: [full citation](#), [index terms](#)

**28 The architecture of a UML virtual machine** 

 Dirk Riehle, Steven Fraleigh, Dirk Bucka-Lassen, Nosa Omorogbe  
October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available:  pdf(180.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current software development tools let developers model a software system and generate program code from the models to run the system. However, generating code and installing a non-trivial system induces a time delay between changing the model and executing it that makes rapid model prototyping awkward if not impossible. This paper presents the architecture of a virtual machine for UML that interprets UML models without any intermediate code-generation step. The paper shows how to embed UML in a ...

**29 Section 05: home and neighbourhood: Practical strategies for integrating a conversation analyst in an iterative design process** 

 Allison Woodruff, Margaret H. Szymanski, Rebecca E. Grinter, Paul M. Aoki  
June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Publisher: ACM Press

Full text available:  pdf(71.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a case study of an iterative design process that includes a conversation analyst. We discuss potential benefits of conversation analysis for design, and we describe our strategies for integrating the conversation analyst in the design process. Since the analyst on our team had no previous exposure to design or engineering, and none of the other members of our team had any experience with conversation analysis, we needed to build a foundation for our interaction. One of our key strateg ...

**Keywords:** conversation analysis, electronic guidebooks, iterative design, qualitative research methods

**30 Structural and cognitive problems in providing version control for hypertext** 

 Kasper Østerbye

December 1993 **Proceedings of the ACM conference on Hypertext**

Publisher: ACM Press

Full text available:  pdf(932.98 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**31 Projections for efficient document clustering** 

 Hinrich Schütze, Craig Silverstein

July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '97**, Volume 31 Issue SI

Publisher: ACM Press

Full text available:  pdf(1.26 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**32 Phrasier: a system for interactive document retrieval using keyphrases** 

 Steve Jones, Mark S. Staveley

August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(625.73 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** evaluation, interactive retrieval interface, keyphrase-based retrieval, query interface

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